

## ABSTRACT OF THE DISCLOSURE

The present invention relates to a pixel compensating circuit, an image taking apparatus employing such pixel compensating circuit, and a method for compensating pixel, wherein a defect pixel existed on an image sensor is effectively compensated.

5      Namely, plural kinds of color information of a defect pixel and adjacent pixels having no defect are stored in a color information holding unit, and a difference calculating unit calculates a difference between color information without defect among color information of the defect pixel and color information of the adjacent pixels. Then, a reference pixel determining unit determines a reference pixel that makes the sum of the  
10     absolute values for the differences calculated at the difference calculating unit minimum among adjacent pixels, and a compensating unit compensates defect color information of the defect pixel based on an average value obtained by calculating average value of the differences for the reference pixel.